From boatanchors@theporch.com Tue Jan 3 12:16:32 1995
Date: Tue, 3 Jan 1995 10:37:39 -0600
Message-Id: <9501031703.AA103319@csemail.cropsci.ncsu.edu>
From: rdkeys@csemail
Subject: Re: 160 Metre Interference

Tom:

Regarding 160 meter interference due to MF aeronautical beacons....

1. To check whether or not you are hearing what you think you are hearing, try using a TRF receiver and see if you can still hear the interference. The R-390 is good, but not great at rejection of LF pickup. I am always amazed at what a good regen TRF receiver will not pick up that the R-388/KenwoodTS140/etc will let trickle through the front ends and elsewhere. Four sets of tuned circuits at the rf do make for a better input.

2. Try installing a HF 160M series tuner circuit in the antenna lead. This will help to insure that the antenna circuit is not oddly resonant to MF. This won't cure MF interference but will increase selectivity at the front end on 160M.

3. Try installing a MF parallel trap circuit in the antenna lead. The 160 will bleed through as if it did not exist, but the MF stations will be tuned out. Pre-tune the circuit for the MF station causing the interference.

4. Try both in line. Put the MF trap first and the 160M tuner second then the receiver third.

Good Luck

Bob/NA4G

p.s. I may try to listen in and see if I hear anything on 160 tonight.

From boatanchors@theporch.com Tue Jan 3 12:38:40 1995
Date: Tue, 3 Jan 1995 11:03:22 -0600
Message-Id: <950103170055_71333.144_DHQ108-1@CompuServe.COM>
From: don merz <71333.144@compuserve.com>
Subject: 4B32 Tube?

Anyone have any information on the age, specs, availability or other data

on the 4B32 high voltage rectifier tube? I've got a pair in an old HV
supply (homebrew) and need the data to understand this thing. Thanks.

From boatanchors@theporch.com Tue Jan 3 13:38:27 1995
Date: Tue, 3 Jan 1995 11:52:39 -0600
Message-Id: <9501031752.AA134427@acs6.acs.ucalgary.ca>
From: "Deane D. McIntyre" <dmcintyr@acs.ucalgary.ca>
Subject: Re: 4B32 Tube?

In message <950103170055_71333.144_DHQ108-1@CompuServe.COM> writes:
> Anyone have any information on the age, specs, availability or other data
> on the 4B32 high voltage rectifier tube? I've got a pair in an old HV
> supply (homebrew) and need the data to understand this thing. Thanks.

>From The NBS Tabulation of Data on Receiving Tubes (1967), US Dept of Commerce,
Handbook 103:

Tube Type 4B32
Kind: Diode (Single)
Bulb: T18
Use: Rectifier
Tube Char: Gas (i.e. Mercury Vapour)
Registered by Chatham Electronics
Filament Voltage 5.0
Filament Current 7.25A
Max Plate Voltage 10KV
Max Plate Current 5A
Typical Plate Voltage 3KV
Typical Plate Current 1.25A
EIA Base 4AT

73, Deane D McIntyre VE6BPO
dmcintyr@acs.ucalgary.ca

From boatanchors@theporch.com Tue Jan 3 17:47:22 1995
Date: Tue, 3 Jan 1995 16:07:04 -0600
Message-Id: <9501032205.AA270014@rs2>
From: dsnowden@ccd.harris.com (Doug Snowden)
Subject: <didn't bother with a subject>

Here are some things that may or may not be of interest to you. I know
there has been some discussion about people posting stuff from other
places here - and if it is not wanted, let me know (personally). If you
don't like it, please don't bother others with your mail, just let me know.

This has been edited to reduce....

```
==============================================================
      Date:  2 Jan 95 04:57
      From: N7CPP@WA6EWV
        To: SALE@ALLUSW
   Subject: SHACK CLEANING
--------------------------------------------------------------
```

>From: N7CPP@WA6EWV.#NOCAL.CA.USA.NOAM
To : SALE@ALLUSW

Thank you for reading this message. I am doing some
house cleaning and have the following equipment for sale:
1   USNavy RAL-6 Reciever and CMX2013A P.S.(with copy of
    Operating manual).
1   B & W 5100 Transmitter (With Op. Manual/Schematic)
1   Yaesu FTDX 570 Transciever (With Op. Manual/Schematic).
2   Knight Star Roamer Recievers 200 kc thru 30 mc (1 Const./
    Op.manual).
1   National NC SW54 Receiver 550 kc thru 30 mc.
1   Hallicrafters SR38C Reciever 550 kc thru 30 mc.
1   Hallicrafters SX-111 Receiver 80 thru 10 Ham Bands.(Op.Manual).
1   TenTec Powermite QRP Transciever 80, 40, 15 Ham
    Bands.(Manual).
1   Collins 32V2 Transmitter (With Op.Manual/Schematic).
1   Heathkit HW-7 Transciever with Const./Op. Manual).
Shipment can be arranged at your expense.
Am open to best offers on all items as would like to make room in
the shack. Bruce, N7CPP @ WA6EWV.#NOCAL.CA.USA.NOAM
(702)882-2207 5:30 TO 10:00 pm PST./EX

```
==============================================================
      Date: 31 Dec 94 08:57
      From: KG6OB@KD6JZZ
        To: COLLIN@ALLUS
   Subject: Sell Mechanical Filter
--------------------------------------------------------------
```

Hello and Happy New Year. I have what appears to be a Collins
mechanical filter for sale. The Type number is F62L-40 and the
Collins Part Number is 522 9190 002. It is a round, chrome tube
6" long and 1" in diameter. The solder lugs on each end appear
to show that it has never been installed. I have no idea what this
item is worth, I'll confess right now, so the price will be Best Offer
received in the next 10 days or so. Reply via packet or (209) 928-1430.
73 de Larry KG6OB Tuolumne, California

==========
Date: 28 Dec 94 12:39
From: KB6KCP@KM6PX
To: SALE@ALLCAN
Subject: DRAKE TR-4 for sale

>From: KB6KCP@KM6PX.#NOCAL.CA.USA.NOAM
To : SALE@ALLCAN

I've got a Drake TR-4 HF transceiver for sale. It is an older tube rig that works fine. Good first rig. Covers 80-10 meters. SSB/CW only.
Comes with a D104 desk mike & manual. I'd like to get $190 for it.
Either send mail to KB6KCP@KM6PX or call me voice at (916) 729-6825.
--Jim

==========
Date: 27 Dec 94 04:37
From: KK6KD@AA6QN
To: SALE@ALLCA
Subject: Collins 75A-4 Receiver..

>From: KK6KD@AA6QN.#SOCA.CA.USA.NOAM
To : SALE@ALLCA

Hi I have a Collins 75A-4 Receiver in good clean and working condition
Serial #973 . Asking $400.00 or best, leave a message or call me any day after
3:30pm @619 425-5011 thanks DE GEORGE **KK6KD**

==========
Date: 25 Dec 94 17:51
From: WD0GNK@WD0GNK
To: SALE@ALLUS
Subject: Drake TR7/7A accessories

I have the following Drake accessories for sale. All are in very good to excellent condition. WH7 wattmeter, RV7 remote VFO, FA7 power supply fan, MS7 speaker, 7077 desk mike, several spare filters, and an AUX-7 board.

Price is $275 firm. I would be interested in some sort of trade for certain items which may interest me. You can reply via packet or reach me at home at 507-288-0242. Thanks, George.

==========
Date: 25 Dec 94 17:51
From: WD0GNK@WD0GNK

To: SALE@ALLUS
Subject: Johnson Viking II's

I have several Johnson Viking II's, including a CDC model for sale. Condition of the units range from fair to good. I also have a VF-122 VFO to go with the transmitters. I would be possibly be interested in some sort of trade for something I am interested in. You can call me at 507-288-0242 or reply via packet. Thanks, George.

Doug, N4IJ dsnowden@ccd.harris.com

From boatanchors@theporch.com Tue Jan 3 06:43:46 1995
Date: Tue, 3 Jan 1995 04:10:15 -0600
Message-Id: <9501031306.22612.AA@smrouter.AAC.COM>
From: Johnson_Dan@AAC.COM
Subject: ART-13: request advice before inspection/purchase

Gentle Boatanchoreds/Tubophiles/Glowafficianados/Hollow Staters,

This evening, 1/3/95, I will have the opportunity to inspect and purchase an ART-13. There were several articles about this rig in Electric Radio in the latter part of 1991, of which I have two (Aug and Dec). I have seen one of these elsewhere, unpowered, but never in operation.

This particular ART-13 is said to need repairs to its exterior paint but is otherwise in good (visual) condition, though the owner himself has apparently not powered it up. It is without power supply and does not have two plug-in modules: the crystal control with preset frequencies and low-band coverage (200 kHz - 1.5 MHz). The owner has the ER series but not other paperwork, such as a manual, but does have a reportedly illegible schematic reproduced from (I think) a book.

I seek advice before I go see it. I'm interested in putting it on the air, primarily for CW but possibly also for AM: function over form. This would not be my primary rig. Based on just this informatino:

- Am I asking for trouble or operating pleasure?
- Is reference material for this rig (beyond the ER articles) readily available?
- Is anyone aware of any common defects for which I should be

particularly watchful?
- Are there cantankerous or impossible-to-replace components?
- Anyone used one of these on the air?
- Is a calibration chart necessary, or should I plan to reconstruct one even if one is present?

Hope you don't mind my asking at this early stage and with this short notice, but the help would be most welcome - anytime!

Thanks from Dan/KC4EWT
Johnson_Dan@AAC.COM

From boatanchors@theporch.com Tue Jan 3 16:41:21 1995
Date: Tue, 3 Jan 1995 14:59:21 -0600
Message-Id: <Pine.SUN.3.91.950103155337.18485A-100000@access1.digex.net>
From: Tony Stalls <rstalls@access.digex.net>
Subject: B&W coax switches UPDATE

Reference the B&W switches below.

As of 3:50PM EST today (1/3/95), they are completely out of the 3 position coax switches, but they have 76 of the 6 positions in stock.

73,

Tony
K4KYO

On Wed, 28 Dec 1994, John King wrote:

> Greetings gang,
>
> Here's a late stocking stuffer:
>
> Barker & Williamson is getting totally out of ham radio production,
> and Herbach & Rademan (sp?) is liquidating the stock. They have
> B&W 6-position coax switches selling for $9.95 each. The switch
> is rated for 1500W and is BNC in and out. They also had 3-position
> switches for 6.95, but might be sold out on those{
>
> Not really boatanchors, but great for selecting the boatanchor for
> your transmitting pleasure from your collection.
>
> Speaking of B&W, I just purchased a B&W 6100... been chasing that one
> for quite a while. Comes with 2 manuals: a working manual, and one

>   still sealed in the original factory plastic! Hurry, Mr UPS man!
>
>   Oh yeah, H&R   215 788-5583 Visa/MC - no affiliation, etc.
>
>   Happy & prosperous New Year to all gentle boatanchor folks.
>
>   John King WA1ABI
>
>
>

From boatanchors@theporch.com Tue Jan 3 17:28:44 1995
Date: Tue, 3 Jan 1995 15:53:48 -0600
Message-Id: <2F09E27E@adminbldg.lan1.umanitoba.ca>
From: "Fleming, Norm" <FLEMING@bldghsc.lan1.umanitoba.ca>
Subject: Background info, books etc.

Hi Everyone,

I'm new to this group, very interested but technically useless.

Can anyone recommend some basic level reading about simple electronics, construction and operation of radios (modern as well as tubed) and related topics.

Thanks for your help.

Norm Fleming, Winnipeg, Canada.

From boatanchors@theporch.com Tue Jan 3 21:53:07 1995
Date: Tue, 3 Jan 1995 20:08:30 -0600
Message-Id: <9501040116.AA10173@kali>
From: wallace@jericho.mc.com (Andy Wallace)
Subject: Drake List (revised by AGW)

###From: lakeith@wrdis01.robins.af.mil (Larry Keith)
###Subject: Re: Drake List

###Here you go.. Haven't done any updates, lately.. Need to get back to
###this..
###73,
###Larry

        Okee dokee, Larry... Here are my corrections/additions to the

list, off the top of my head....

I've marked mine with # so you can see the changes.

--Andy Wallace, KA1GTT
wallace@mc.com

THE DRAKE LIST
Version 5
September 8, 1994

Maintained by Larry Keith, KQ4BY.

Contributors: Howard, AD6Y; Doug, N4IJ; John, WB5OAU; Dave, WB0GAZ; John, VE3LL; Mark Glusker; Hugh, NV6H; Neal Anderson; M G Laubach, N0GTH; Bob, K0KR; Gary Chatters; Ed, K2MP; Jim Kearman, KR1S.

This list is an attempt to catalog the complete line of amateur radio equipment, options, and accessories produced by the R. L. Drake Company of Miamisburg, Ohio. Some SWL and commercial receivers are also included since we believe they may have found some use in the ham shacks of Drake fans. Modifications produced by other companies, such as the Sherwood Engineering modifications are also listed.

Drake Receivers:

1A AD6Y says there are at least 2 versions of this one.

2A
2B
2C

DSR-1 Digital Receiver
DSR-2 Digital Receiver

R-4
R-4A
R-4B

R-4C AD6Y says there were two versions of this one. The newer ones have 3 CW filter positions while the older ones have 2.

R-7
R-7A

SPR-4
SPR-4A
there was no SPR-4A, as far as I know.

SSR-1 HF, solid-state general coverage receiver.

SW-4
SW-4A

Drake Transmitters

2NT

T-4 HF Reciter for use with R-4 receivers.

T-4B HF Reciter for use with R-4B.
TR-44B Combination R-4B and T-4B in single stacking cabinet.
...Anybody got one? <grin> ...Andy

T-4X HF Transmitter

This was the companion transmitter for both the R-4 and the R-4A.

T-4XB
T-4XC

Drake Transceivers

TR-3

TR-4 AD6Y says there were 3 versions of this one.

TR-4C

TR-4CW AD6Y says there were 2 versions of this one. One had RIT and the other did not.

TR-5 Stripped version of the TR-7.

TR-7
TR-7A

Remote VFO's

```
    RV-3
    RV-4
    RV-4C
    RV-75    Analog Display Remote VFO for the TR-7.
    RV-???   Digital Display Remote VFO for the TR-7.

#  The RV-7 is the analog VFO, the digital one is the RV-75.


                        Drake Linears

    L-4
    L-4B
    L-7
    L-75

                      AC Power Supplies

   AC-3    PS for the TR-3 and T-4/T-4X
   AC-4    PS for the TR-4* and T-4XB/C Transmitters
   AC-10   PS for the TR-22/TR-33
   CPS-1   Power Supply for the SC-* VHF Converters.

   PS-7     Heavy Duty Power Supply for the TR-7
        Recommended for RTTY, SSTV, etc.

   PS-75   Standard Duty Power Supply for the TR-7



                      DC Power Supplies

    DC-3
    DC-4

                        Antenna Tuners

    MN-4
#   MN-4C   -- styled like the MN-7, but in the R-4C colors
    MN-2000
    MN-2700
    MN-75
#   MN-7 -- 300W version

                           Speakers

    2BS   Speaker for the 2B Receiver.
```

there was also a 2-AS and 2-CS.
MS-3
MS-4
MS-7

Wattmeters

W-4
WH-7
WV-4 VHF Wattmeter.

Station Console

C-4

Converter Consoles:

CC-2 Converter Console
Used to house the SC-* and TC-* converters as well as the

this should be CC-1. It did NOT house the TC converters, as those
were large stand-alone cabinets.

CPS1 power supply for the converters.
the CPS-1 powered the SC-2 and SC-6, not the TC set.
SCC-1 Calibrator for SC-2 and SC-6 converters.

VHF Converters

SC-2 2 Meter Receiving Converter
SC-6 6 Meter Receiving Converter

TC-2 2 Meter Transmitting Converter
TC-6 6 Meter Transmitting Converter

Note: These items are powered by the AC-3/AC-4 Power Supply.

Options:

FF-1 Crystal Control Adapter for the TR-4C.

2AC Crystal Calibrator for the 2B
2AQ Q multiplier for the 2A
Note: This was also installed in some 2B receivers.
2BQ - Q multiplier for the 2B (?)
Note: This is still suspect.

The 2-AQ, 2-BQ, and 2-CQ were speaker/Qmultipliers for the 2-A,
B, and C respectively. They were external cabinets of course, not
installed inside the receiver. I have a 2-A/2-AQ, 2-B/2-BQ so those
should no longer be suspect. <grin> By the way, the Qmult/speaker
combinations sound great! There is a 2-B article in a past Electric
Radio...I think from 1993.

34PNB -	Noise Blanker for the TR-4 series.
4NB -	Noise Blanker for the R-4C.
5NB	Noise Blanker for the SPR-4

??9NB?? - Noise Blanker for the TR-6.
it is indeed the 9-NB.

# RV-6	Remote VFO for the TR-6.
AL-4	Loop Antenna for the SPR-4.

and SW-4A.

DC-PC	DEC Cigarette Lighter Cord for the SPR-4

don't you mean "DC?" <grin>

FA-7	Cooling Fan for the TR-7.
FL250	250 Hz Crystal Filter for the R-4C.
FL400	400 Hz Crystal Filter for the R-4C.
FL500	500 Hz Crystal Filter for the R-4C.
FL1200	1.2 kHz Crystal Filter for the R-4C.
FL1500	1.5 kHz Crystal Filter for the R-4C.
FL1800	1.8 kHz Crystal Filter for the R-4C.
FL2100	2.1 kHz Crystal Filter for the R-4C.
FL4000	4.0 kHz Crystal Filter for the R-4C.
FL5000	5.0 kHz Crystal Filter for the R-4C.
FL6000	6.0 kHz Crystal Filter for the R-4C.
MB-22	Deck Mount for the TR-22.
MMK-3	Mobile Mounting Kit for the TR-4C.
MMK-22	Mobile Mounting Kit for the TR-22.
RY-4	Teletype Adapter for the SPR-4.
SCC-4	Crystal Calibrator for the SPR-4.
TA-4	Transceive Adapter for the SPR-4.

Accessories:

DL-1000	Dummy Load.
FS-4	Frequency Synthesizer unit for the R-4 series.
RCS-4	Remote Coax Switch.

TV-42-LP 100 watt Low Pass Filter

TV-75-HP High Pass Filter for 75 ohm coaxial cable.

TV-CB-LP CB (less than 100W) lowpass filter.

TV-100LP Low Pass Filter.

TV-300HP High Pass TVI Filter.

TV-1000LP Low Pass Filter, 1 KW.

TV-3300-LP 1000 watt Low Pass Filter

TV-5200-LP 1000 watt Low Pass Filter

583 "QX-er" Q-Multiplier.
Similar to the Heath QF-1, 455 kc IF.

584 "High Patch" Automatic Hybrid Phone Patch.
NV6H reports that it came in several colors.

587 Audio Bandpass Filter
This unit is a round tube with male/female microphone connectors on the ends. It was inserted between the microphone and the rig to tailor the audio.

7072 Hand-held Microphone

7075 Desk Microphone.

7077 Microphone

???? Communication Console. Looks like a big, blue, dumb terminal. Does RTTY.
Theta-7000 was the number...

???? Digital Readout for the 4 Line.

as far as I know, Drake never made one. There were aftermarket models,
though. One was the Spectronics FR-4.

VHF Gear

ML-?? 2M FM, solid-state with tube final (?)
ML-1 and ML-2. Tube final?!

TR-6 6M Transceiver akin to the TR-4.

TR-22 6 channel 2M FM Transceiver. 1 watt output. Pull out 1/4 wave whip and internal charger.

TR-22C Portable 2M FM Transceiver.

TR-33 12 Channel version of the TR-22.

TR-72 2 Meter Transceiver.

????? 10 watt 2M FM Amplifier (Was this Drake?)
Yes. AA-10.

UV-3 3 Band modular FM mobile transceiver.

There were modules for 144, 220 and 440 MHz. Is there a matching power supply or speaker? Was the control head available separately?

Sherwood Engineering Modifications

2.1U First IF Filter.
2.1L First IF Filter.
0.6 First IF Filter.

Changes to this list:

9-2-94 Deleted TR-2, AC-2, DC-2. Added R7A, TR-5, TR-7A, MN-2700, MS-3, MS-4, 2AQ, 2BQ, L75, CC-4, TC-6, TC-2, TR-6, SC-2, SC-6 CC-2, CPS1, T-4A.

9-2-84 Added RV-3, RV-4, RV-7.

9-6-94 Added description of old/new R-4C versions. Corrected CPS to CPS-1. Corrected description of CC-2. Deleted CC-4. Added 4NB, 34PNB, ??9NB??, TR-22, 10 watt 2M FM amplifier, description of the TR-5 and TR-6. Answered the L-4A question and the 2NB question. Added UV3, FS-4, and filter options for the R-4C. Added SSR-1, MN-75, WH-7 and ML-???. Added RCS-4 and DL-1000.

9-6-94 Added 2AC, 2NB, RV-4C, TR-72, various R-4C filters, and Sherwood Engineering IF filters. Added MS7, RV75 (deleted RV-7). Corrected description of TR-22 and TR-33. Deleted T-4XA. Added description of UV-3. Added TV-100LP, TV-1000LP, TV-300HP, Communication Console, and TR-7 Power Supply.

9-7-94 Added description of the two variations of TR-4CW. Added DSR-2, AC-10, FF-1, FL-*** Filter Models, MMK-3, 5NB, AL-4, DC-PC, RY-4, SCC-4, TA-4, TV-42-LP, TV-3300-LP, TV-300-HP, 7072, 7075, Digital Readout for the 4 Line, TR-22C, MB-22, MMK-22, TR-72. Added PS-7, PS-75, RV-7, RV-75. Corrected description of 4NB. Deleted T-4A.

9-8-94 Added FA-7. Corrected description of UV-3. Added 583, 584A, 587. Added notes to the 2AQ and 2BQ. Deleted 2NB.

Questions:

1. What was the model number of the crystal calibrator option for the 2-series receiver? 2AC.
Yes... Worked in the 2-A, 2-B, or 2-C.

2. Was there a L-4A Linear? No..

3. Was there a 2NB noise blanker for the 2-series receivers? WB0GAZ says "No." But, KQ4BY thinks he has seen one.. KR1S says no way. Deleted from the list.
If you can find someone with a 2-C, ask. There were no plug-in slots
for limiters in the 2-A or 2-B (it was built in) but someone with a
2-C might be able to tell you. I _have_ seen the 2-NB listed as an
accessory, but not in official Drake literature...

4. Why did they start the transceiver line with the TR-3? Well, we got two opinions that say that "3" was the next series after the "2" series receivers and transmitters.

References:

1. Tufts Radio Catalog, 73 Magazine Holiday 1976 Issue, page 117.

= = = = = = =

Hope my additions help, Larry. Of course, comments and corrections would be welcome here, too.

--Andy Wallace KA1GTT
wallace@mc.com

From boatanchors@theporch.com Wed Jan 4 02:13:06 1995
Date: Wed, 4 Jan 1995 00:39:26 -0600

Message-Id: <814@ki5sl.ampr.org>
From: ki5sl@ki5sl.ampr.org (Rick_Blank)
Subject: Re: Drake List (revised by AGW)

In message <9501040116.AA10173@kali> wallace@jericho.mc.com writes:
>
> ###From: lakeith@wrdis01.robins.af.mil (Larry Keith)
> ###Subject: Re: Drake List
>
> ###Here you go.. Haven't done any updates, lately.. Need to get back to
> ###this..
> ###73,
> ###Larry
>
> Okee dokee, Larry... Here are my corrections/additions to the
> list, off the top of my head....
>
> I've marked mine with # so you can see the changes.
>
> --Andy Wallace, KA1GTT
> wallace@mc.com
>
> ----------
> THE DRAKE LIST
> Version 5
> September 8, 1994
>
>
> Maintained by Larry Keith, KQ4BY.
>
> Contributors: Howard, AD6Y; Doug, N4IJ; John, WB5OAU; Dave,
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> Laubach, N0GTH; Bob, K0KR; Gary Chatters; Ed, K2MP; Jim Kearman,
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>
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> radio equipment, options, and accessories produced by the R. L.
> Drake Company of Miamisburg, Ohio. Some SWL and commercial
> receivers are also included since we believe they may have found
> some use in the ham shacks of Drake fans. Modifications produced
> by other companies, such as the Sherwood Engineering
> modifications are also listed.
>
>
..bunch of stuff deleted.....
>
> VHF Gear
>

> ML-?? 2M FM, solid-state with tube final (?)
> # ML-1 and ML-2. Tube final?!
>

...more stuff deleted.....

I have the book for the Drake ML-2, Marker Luxury, 2m Transceiver here in my hot little hands! (got the rig on the top shelf here, too)...the final TUBE is a type 6360 driven by a transistor.

It has a built in 110vAC power supply, plus, it can work off 12v, too.

Looking at the schematic, it has 1-tube, 5-fet's, 20-transistors, 18-diodes, and 2-integrated circuits. It has a dual conversion receiver, 1st IF at 10.7mhz and 2nd IF at 455 khz, 0.5 microvolt or less for 20db quieting sensitivity, 0.5 watt audio output at 10% or less distortion, and (listed by Drake as "conservative") a 10 watt transmit power output. Frequency stability was given as +or- .001% or less. The transmitter uses seperate crystals from the receiver with different specs for each:

Transmit Crystals:
Fundamental mode parallel resonant with 30pf load capacity in HC-25/U holder. Divide transmit frequency by 12 to obtain crystal frequency.

Receive Crystals:
Overtone mode series resonant in HC-25/U holder.
Subtract receive frequency by 10.694 mhz and divide by 3 to obtain crystal frequency.

The mike input was wired for either a 500 ohm dynamic microphone or a carbon mike.

The radio has 12 channels, has a front mounted speaker and s-meter, and weighs 8.25 lbs.

I wonder if Drake still supports this rig! heehee...

The transmitter on mine works great but the receiver is so numb it won't receive from a 50 watt rig right next to it! Another project or someting that I could be talked out of!

Rick Blank
ki5sl@sat.ampr.org
2223 Blanco Road
San Antonio, Texas 78212

end

From boatanchors@theporch.com Wed Jan 4 02:12:57 1995
Date: Wed, 4 Jan 1995 00:38:55 -0600
Message-Id: <813@ki5sl.ampr.org>
From: ki5sl@ki5sl.ampr.org (Rick_Blank)
Subject: Equipment Prices

I Totally agree that the prices of equipment is going up and conditions are going down, it seems as if the good stuff is going overseas or to collectors who will never agin use the rigs...

I also believe in pricing equipment fairly and accurately without reaming someone a new one, but, it seems as if I am in the minority when it comes to buying stuff, i.e., a local ham told me of an "old receiver with plug in coils" he found in an antique shop. He said the shop was asking $150 for it with coils and coil box and speaker. HE WASN'T SURE IF IT WAS WORTH IT OR NOT, so, he didn't buy it....We talked on the phone and I told him that the only rigs I new of like he described were the National HRO series and I would like to go take a look at it....the bugger wouldn't tell me where the shop was! I bet the SOB buys the thing and then tries to screw me into buying it! This from a guy that is 38, has operateed a BC-610 back in college, and knows my liking for old receivers! He is an old transceiver lover and the receivers aren't something he usually thinks about....

This sun-of-a-gun is also supposed to be getting an SX-88 in a package deal and he asked me what one was worth...
I asked him how much he wanted for it...
I guess he is going to try and get the max he can instead of making a tidy profit and letting it go to a buddy who would really appreciate it....so much for friendships, huh?

I guess that if I was like some of the fatherless sorts that are in the hobby just to make large profits from hams then I would probably feel differently, but, I got into hamming by being an old receiver nut and it just p***es me off!

I have been fairly lucky in my acquisitions, so, I guess that I shouldn't complain too much, but, I just feel like there are too many pirates out there ready to rob the collectors and conservators like those of us who love the real radios!

Rick Blank, KI5SL
ki5sl@sat.ampr.org

2223 Blanco Road
San Antonio, Texas 78212
end

From boatanchors@theporch.com Tue Jan 3 09:46:02 1995
Date: Tue, 3 Jan 1995 08:12:06 -0600
Message-Id: <9501030754.aa15709@jackatak.theporch.com>
From: firebotl@jackatak.theporch.com (Fire Bottle archive handler)
Subject: Found on the Net: Elmers Resource Directory

Hey gang-

There are several of you that I know are on the Elmer's Resource, but for those who are not, and who might like a leg up on some neato stuff, I'd like to pass on the following for your amusement and edification...

++
W. David (Dave) Paperman WQ5Y

wpaperman@msmail.his.tch.tmc.edu

P.O. Box 7039
Cut 'n Shoot, TX 77303-0039
(H) +1 713 592-8636 (6pm to 9:30pm Central Time)
(W) +1 713 770-1836 (6:30am to 3:30pm Central Time)

I have a collection of service information and literature dating back to the 1920's. I will be happy to assist those needing copies of out-of-copyright information for specific makes and models of receivers, transmitters, test equipment, etc..

The collection spans commercial, amateur, and military surplus gear of all types. Unfortunately I have not taken the time to catalog all this information, but it is logically filed by make, model, etc.

If you need service information for a specific piece of equipment, (and I have the information in my collection) I will research and copy it for you. Cost will vary depending on the time required to find the information and the amount of pages to be copied. I estimate 10 pages or less at $1.00/page including US postage. I will quote on larger manuals.

This is NOT my career or a business. Any requests must be prepaid or I will ship COD at additional postage costs.

++
I have no fiduciary interest in this, but some recent threads led me
to think others on the boatanchor list might want the resource.
73
Jack, W4PPT/M (75M SSB 2-letter WAS #1657/#1789 -- both from the mobile! ;^)

Fire Bottle Server (Boat Anchors Get Out and Keep You Warm!)
firebotl@jackatak.theporch.com
Where Old Radios and Fun ... GO TOGETHER!
+----------human interface: root@jackatak.theporch.com----------+

From boatanchors@theporch.com Tue Jan 3 23:15:37 1995
Date: Tue, 3 Jan 1995 21:43:20 -0600
Message-Id: <Pine.3.89.9501032236.A11939-0100000@ios.com>
From: Charles Sullivan <dorje@ios.com>
Subject: Heath HG-10 WANTED!

A friend who collects and restores Heath equipment needs an HG-10 VFO for
his DX-60A. Let me know if u can help.
Thanx,
Chuck WA1IIE
wizard@celestat.com
rigzin.dorje@autumn.woodybbs.com

From boatanchors@theporch.com Tue Jan 3 11:34:05 1995
Date: Tue, 3 Jan 1995 09:59:05 -0600
Message-Id: <m0rPBbr-000uHTC@twisto.eng.hou.compaq.com>
From: David=Douglas%Sys=Mgmt%Sys=Hou@bangate.compaq.com
Subject: Heath telephone #?

Does anyone know the telephone number of Heath? I need a
manual for a Heath 4226 oscilloscope.

Thanks,
David

From boatanchors@theporch.com Tue Jan 3 16:52:46 1995
Date: Tue, 3 Jan 1995 15:11:27 -0600
Message-Id: <Pine.3.87.9501031316.A24292-0100000@steroid.ecst.csuchico.edu>
From: "Chasing the F-2 layer." <kn6al@ecst.csuchico.edu>
Subject: Re: Heath telephone #?

On Tue, 3 Jan 1995 David=Douglas%Sys=Mgmt%Sys=Hou@bangate.compaq.com wrote:

> Does anyone know the telephone number of Heath? I need a
> manual for a Heath 4226 oscilloscope.
>
David,
     Heathkits phone numbers are: 1 800 253-0570
                                -2570 (my notes a bit unclear)
                        1 616 925-5899
     One problem that you may encounter with Heath is a minimum order of $15.00 So, your manual may cost $5.00 but if you dont need any other parts from Heath, it will cost you $15.00!
     Not an appealing option to me! I presume you have tried other sources such as W7FG Manuals?? 1 918 333-7893
                        73's,
                             Carl, KN6AL +

From boatanchors@theporch.com Tue Jan 3 00:58:22 1995
Date: Mon, 2 Jan 1995 23:23:12 -0600
Message-Id: <Pine.3.89.9501030041.A572530167-0100000@wmich.edu>
From: X90GALBRAIT1@wmich.edu
Subject: Homebrew ideas?

Every night as I'm falling asleep I have a few reoccuring BA phantasies-a KW-1, a room full of N.O.S. tubes, caps, transformers, etc.., and my own home brew AM tx. Well, being a college student (by defintion poor) I must dismiss the KW-1 as pure phantasy. Alas, the parts dream may come true, but I've yet to amass such a great junk box collection. So, I must pursue the home brew tx :)
I'm new to electronics, BAs are at once the passion which drive me to learn about electrons, and the object of such a pursuit. I've replaced caps and such, but wouldn't know how to design even a simple circuit.
I've been looking for a Radiotron Designer's Handbook to no avail, per the advice of all the seasoned technicians, and would like other suggestions for approachable material. Does anyone have any favorite QST or CQ articles on tx design? I'd like to build a modulation deck and p.s. to be driven by a Ranger or so, possibly with 813s-these seem to be much cheaper than 4-400s and the like. In the meantime I'll start looking for the transformers, var. caps, and the like.
I greatly admire all of you fellows I hear that proudly talk about your homebrew rigs-I would't know push-pull 304TLs from triode driven 813s, but someday I'd like to :) That hi-fi AM is the true spirit of the ham.

I'd like to thank all of this wonderful list for its great advice and

incredibly nurturing atmosphere-if it weren't for this group and the boatanchors we all love, this young ham would still be convinced that electronics are for engineers--something that hams have negated since radio existed...because of hams like you guys and ladies.

Happy new year and a big ol' 73,
Chris KA8WFC

From boatanchors@theporch.com Tue Jan 3 17:11:16 1995
Date: Tue, 3 Jan 1995 15:35:40 -0600
Message-Id: <9501032137.AA23748@sumter.awod.com>
From: wb4ijn@awod.com (Steve Thomason)
Subject: JOHNSON THUNDERBOLT FOR SALE

I have a Johnson Thunderbolt for sale. Very nice cosmetic condition.
$495. UPS shipping costs will be between $45 and $60. I will split
the shipping costs and pay for the packing and boxing.

If interested, email me or call 803-871-7749 for details on unit.

73, Steve.
73, Steve, WB4IJN

Internet: wb4ijn@awod.com
Packet: WB4IJN@N4CII

From boatanchors@theporch.com Tue Jan 3 15:59:05 1995
Date: Tue, 3 Jan 1995 14:19:20 -0600
Message-Id: <01HLEXCH56MA90MU9F@ACAD.FANDM.EDU>
From: CCS_MAH@admin.fandm.edu (Mark Hemlick Ph. D.)
Subject: Re: KWM-2 microphone/PTT switch wiring

Hi Randy and others. Hope you all had a nice holiday.

You wrote

>My guess would be that on Collins mike plugs the PTT switch is wired
>between the tip and the shield braid and the mike element is wired
>between the ring and the shield braid. Is that correct? If so my friend
>could wire his mike thusly and use an ordinary pushbutton switch for the
>PTT switch. Right? If wrong, what's the proper way to do it?

This is how it's wired on the Drake, may be the same on the Collins also.
If the Collins is similar to the Drake, there is an alternative. Have your

friend wire the mike element to the ring and braid/ground and use the VOX. Of course, he won't have PTT, but, if his VOX is working he can test the rig. Can always install a PTT later. BTW, you mention that he had a dynamic mike. You may recall an earlier discussion about matching mike impedances on the Drake/Collins. I believe the KWM-2 also uses a high impedance mike. Consequently, he may have somewhat poorer performance/audio if he uses his low impedancy dynamic mike with the KWM-2. Good luck.

73 Mark KA3LFG

From boatanchors@theporch.com Tue Jan 3 20:04:37 1995
Date: Tue, 3 Jan 1995 18:30:39 -0600
Message-Id: <9501040028.AA12021@cen.com>
From: gc@fox.gsfc.nasa.gov (Gary Chatters)
Subject: Minnesota trivia

On Monday I took a trip over to the nearby ham radio store. I like to stop in every week or two and see what is in the consignment room. It is like a real slow hamfest. I have waited months for the prices on some items to come down to a reasonable level.

There were a bunch of new small items with fairly good prices, so I bought a few things including a Dow-Key antenna relay.

The Dow-Key came with both a 12VDC coil (installed) and a spare 110VAC coil, so it can be set up either way. It was in its original box with documentation. I noticed from the box labels that the Dow-Key company was located in Thief River Falls, Minnesota.

Thief River Falls is a small town of about 9000 people in far northen Minnesota. Any one who keeps a few parts supplier catalogs around will recognize the name. It is also the location of Digi-Key.

That is an interesting coincidence that I hadn't noticed before. Did Dow-Key become Digi-Key? Or is there some other relationship, or is it just a coincidence that two companies in the same small town have similar names?

Although they are in the same state, it is about 300 miles to Waseca, that other, slightly smaller (pop. 8000), Minnesota city that is so significant in the history of amateur radio equipment.

Only 12 days till FrostFest '95!

Gary

From boatanchors@theporch.com Tue Jan 3 10:35:38 1995
Date: Tue, 3 Jan 1995 08:57:39 -0600
Message-Id: <950103145527_71333.144_DHQ67-10@CompuServe.COM>
From: don merz <71333.144@compuserve.com>
Subject: S-36A, Wants

For Sale (in case Santa didn't bring you EVERYTHING you wanted...)

CONTACT: Don Merz, N3RHT: 47 Hazel Drive, Pittsburgh, PA 15228
412-234-8819.

LATEST ADDITIONS

These items are the latest additions to a lengthy list that is posted on Compuserve in HAMNET LIBRARY 10 under the file name RADIOS.TXT.

Hallicrafters S-36A WWII-vintage AM/FM VHF receiver. Complete, unmodified. Unworking. Dirty but virtually no scratches or marks--this one should clean up to an excellent looking radio. $119

Gonset Commander Transmitter. Tiny HF AM mobile rig. Crystal controlled, using plug-in coils. Covers 1.7 - 54mhz. Fair to good condition with some wear and scratches all over. Requires external power supply (which I do not have). Manual photocopy and one coil (40 meters) included. $55

Abbott DK-3 parts set. This is a pre-war 2-1/2 meter transciever--apparently the predecessor to the TR-4. I am listing this in the Electric Radio Parts Unit Directory so call me if you can use any parts from this set. Or buy the whole thing for $16.

WANT LIST: I am looking for everything listed below for a fair price or trade. Good working condition preferred, others considered. Many Thanks.

WANTED: Vintage Ham Equipment
- Antenna tuner for the Hallicrafters HT-4B transmitter (AT-2 or AT-3)
- Millen 90810 Power Supply
- Millen 90xxx VHF Transmitter
- Gonset Communicator IV (220mhz).
- Gonset: MSB-1 transceiver, G-77 or 77A transmitter

WANTED: Vintage Ham and Military Accessories
- Hammarlund HQ-140 Matching Speaker
- National HRO 60 Coils AA and AB
- Hallicrafters SX-11 matching speaker or any nice old 5000 ohm speaker
- Gonset Communicator IV accessories, mics, mounts, anything.

160 Meter Crystal For the Drake R4B
Set of SWL crystals for the Drake R4B
Coils for Millen R9'er receiver preamp
Probe(s) for RCA WV98C Senior Voltohmyst VTVM: WG-299D (easily recognizable by the blue cable) and WG-301A Crystal Diode Probe (no cable).
Hallicrafters HT-4 or BC-610 coil: 51C383 (1.5-2.0mhz)
Hallicrafters HT-4 or BC-610 tuning unit: TU-AA (1.5-2.0mhz)
Military BC-221-AH accessories that went in the compartment in the lower front of the unit.

WANTED: Current Ham Equipment
Timewave DSP-9+
Autek RF Analyst Test Set

WANTED: RESTORATION PARTS
Gonset Communicator IV parts units, any (but 2M version especially wanted).
Clean faceplate for Abbott TR-4
Rear cover for Abbott DK-3
Military BC-654 (SCR-284) power connector
Military BC-669 (SCR-543) rear door
Military PE-103 dynamotor battery cables
Ohmite pre-war dummy antenna resistors model 258. These are 250 watts but I'm not sure of the resistance.
Collins R-389 (VLF) modules, top and bottom covers. Need IF,AF and power supply modules. R390 modules will work (not R390A) and any R390 or R390A covers will work.
Metal cabinet for Jefferson Travis 350A transmitter/receiver. Also need wooden outer case and legs for this radio.
Hallicrafters HT-4 or BC-610 vacuum capacitor: This is C28 that mounts in 2 clips in the top of the BC-610 and HT-4 transmitters. It is a large glass cap with a value of 55mmf at 32,000 volts.
Hallicrafters cable part #87A159 or similar. This is the cable that runs between the HT-4B transmitter and the HT-5B speech amplifier--octal plugs on both ends. I have a homebrew cable but I'd like to have an original.

WANTED: Military
BC-669 (SCR-543) original power supply
BC-342 receiver in excellent original condition with shockmount.
Need BC-322 or BC-222 handset, battery, info
Navy GO-9 "LF" Transmitter. I have the power supply and HF Transmitter, but I need the LF side and the accessories & mounting brackets
Navy TDE power supply (110vac, 60cps)
Bendix ATD components: CRR-47211 9050-15,800khz tuning unit
CRR-47207 200-540khz tuning unit
Navy RBM-x receiver shockmounts (the RBS-x shockmount will work too). Two needed. Also need cables for power supply and remote control cables for this radio.
Number 19 Mark II remote cable, control box(es), "A" set antenna with variometer, "B" set antenna, P-19 headphones and canvas cover

SCR-284 (BC-654 or 654A) GY-11 guys, P-19 headphones, BG-58 bag and original power connector
SCR-536 (BC-611) Walkie-Talkies w/US Data Plate or parts units
SCR-536 (BC-611) accessories: AT-190 DF Loop antenna, cases, storage chests
SCR-694 (BC-1306) accessories (BX-54A box & BG-173 bag), vibrator supply
PRC-64 (Delco 5300) set with or w/o accessories. OR Delco 1600 OR 3200
Marine TBX Accessories: key, mic, headphones
Marine TBY Accessories: CRH-26013A key, whip antenna, CSS-10039A canvas bag

WANTED: Tubes. Must be new or used, guaranteed to be good. Need multiples of each type.
47 83 307A 801 803 807 812 812A 813 814 837 866A
5647 5899 5Z3 2A3 100TH 250TH 1616 5R4 5V4 6BE6
913(pre-war CRT)

WANTED: Manuals (originals preferred, photocopies okay)
Manual or any information on "Bliley Crystal Controlled Oscillator Model 1A." This is a two-tube (12SK7 and 35Z5) oscillator covering 175-200-262-370-455-465-1000 khz and an external crystal. Internal and external modulation is supported. The chassis is stamped December 24, 1946.
Military BC-221-AH Original Manual Only
Hallicrafters HT-4B Manual. As close as I've been able to come to this one is a manual copy from an HT-4C. I'd love to have a real "B" manual though, even a photocopy.
Navy RBM-3 or RBM-4 receiver manual. I have the RBM-5 manual.
Navy Collins-made TCS-5 Manual, TCS PP-280/U power supply manual
Navy TDE transmitter Manual
Military BC-325-B (made by Federal Telegraph) Manual
Jefferson Travis 350A transmitter/receiver manual
Waterman S-11-A "Pocketscope" manual
Gonset Communicator IV (6 meters) Manual
Millen 90881 RF Deck Manual
Millen 90203 'scope Manual

WANTED: Reference Literature
CQ, CQ, WANTED, CQ MAGAZINE: 1940's and 50's singles issues wanted--please send me your list. 1960's whole years oly.
RADIO magazine, 1934 and earlier, January, 1936, or 1942 - 1946
QST Magazine: 1941-45, 1951-55 and 1985 - 1989
ARRL Antenna Books, 1st, 4th and 6th editions
ARRL Handbooks: 1926, 1931, 1939, 1941, 1959
AWA Review Volumes 2, 3, 4 and 5
Any issues of the RCA Review

WANTED: Antennas and Related
Coax switches. Need 2 name brand five position switches rated for VHF service
Coax switches. Need 2 name brand five position switches rated for HF service
Create CLP 5130-2 105mhz - 1300mhz Log Periodic Antenna

WANTED: Computer Junque

4 256K, 80ns, 9 bit single density SIMMs
1 1.2MB 5.25"half-height beige floppy drive
1 Color VGA monitor
1 NEC monochrome VGA monitor

WANTED: Help Identifying This "Mystery" Radio:

It is military, painted olive drab wrinkle finish, about 17" tall, 10" deep and 6" wide. It has removable covers on the top and bottom secured with sliding fastener clips. All the edges are rounded rather than squared off. Access to the controls is through a hinged door on the narrow side. The other narrow side has a turret to mount a screw-in whip antenna (kind of looks like the antenna fixture on a BC-620). The controls are CALIBRATE: TRANS-OFF-REC, F - V (two position rotary), OFF/ON and and unmarked pushbutton. It has two semicircle dials back-to-back each with scales marked 40 - 48. Tuning knobs are in the middle of the semi-circles and have a locking mechanism behind the knob. Plugs on the panel are 1/4" phone and 3/16" mic jacks with waterproof spring-loaded covers. The covers are marked: MIC, MASTER PHONES, SECOND PHONES, CAL TRANS and CAL RCVR.

The circuit uses a lot of 1T4 tubes along with the following others: 1294, 1LD5, 1LE3, 1S5, 3A5, 1R5, 1S4. Tags inside show layouts of the IF and RF chassis. One item on the tag is marked "discriminator" so I'm guessing that this is an FM set. hmmmm...FM, 40 - 48mhz...sounds like the SCR-300. There is no nomenclature tag or markings but one end cover on this one is missing so that may have had the tag on it. Construction is stainless steel.

From boatanchors@theporch.com Tue Jan 3 23:02:48 1995
Date: Tue, 3 Jan 1995 21:29:42 -0600
Message-Id: <950103222548_6162717@aol.com>
From: DUBE135@aol.com
Subject: Re: San Antonio Radio Club Ha...

Rick, plese send details of the 'Fest. I'm up the road here near Copperas Cove.

From boatanchors@theporch.com Tue Jan 3 12:08:02 1995
Date: Tue, 3 Jan 1995 10:30:10 -0600
Message-Id: <9501031631.AA1647@hqsmtp.ops.3com.com>
From: Joe Reda/HQ/3Com <Joe_Reda@3mail.3Com.COM>

Subject: Re: Say it ain't so! (BA prices-another wimper)

>Just to check the collective consciousness of the list, what is a GPR-90
>going for these days? I spoke with a local fellow who said they were
>going for $800-1000 last year...is this accurate? Were there many made?
>How about the acccessories like the speaker and SSB adapter? I'd really
>like that rx, but I saw a GPT-750 go for $750 a month ago and thought
>that was a deal! At least for the tx, you're paying about $4/lb, vs
>$25/lb for the rx!
>Gee, I thought puppy love hurt, BA love isn't for the faint of heart--or
>middle-class...:)
>73, Chris KA8WFC

I had a GPR-90 a couple of years ago, and I still don't understand what the big deal is about those receivers. They're nice and well built, but my SP-600 out-performed it and a R-390A would certainly out-perform it. I think the mystique about TMC products in general has served only to drive up prices.

\\Joe KC6TXU

From boatanchors@theporch.com Tue Jan 3 14:38:44 1995
Date: Tue, 3 Jan 1995 13:00:24 -0600
Message-Id: <199501031858.NAA25911@altair.cs.unc.edu>
From: Nick England <nick@cs.unc.edu>
Subject: silk-screening

Based on experiences 20 yrs ago (gadzooks - has it been that long!)

Anyway, while I was in grad school I took a graphics arts course and learned about silk screening - and did some T-shirts, posters, etc. Here is some info that may be useful if you are considering this.

Artwork

Best way for our purposes is photographic - make your artwork 2:1 or 4:1 and then reduce to 1:1 for best results. make a high contrast positive transparency (clear where you don't want ink, black where you do) - a copy machine transparency will probably do OK.

make the screen

Expose a piece of photographic silk screen film (made by Ulano but I can't recall the trade name now) through the transparency - using a light source high in UV content (a platemaker is best, photo-floods OK, sunlight might work).
Then develop the silk screen film (just hot water I think) - Net result is that the emulsion which has been exposed does not wash off but unexposed emulsion (letters, dial markings, etc) does.

The remaining emulsion is actually kind of soft, so you can take your silk screen frame (silk stretched really tight on something similar to a picture frame), press it into the emulsion, and the emulsion will stick to the silk - when it dries remove the clear backing film from the emulsion. You now have a screen ready to use - or maybe you have a mirror image if you accidently flopped the transparency!
- alternative to all this is to take your artwork to a silkscreen place and pay them to make you a screen with it.

To print
---
select an ink - various kinds including enamel which is what we'd probably use for old gear. Press the silk tightly against the front panel, spread some ink at one end of the silk, and run a hard rubber squegee (made for silk screening) across the silk, forcing ink through those places not blocked by the emulsion.

Don't use too much or too little and maintain accurate alignment through out. Lift off the screen (carefully) and let the panel dry (and wash out the ink from the screen with appropriate solvent if you expect to use it in the future).

Summary

This may sound horrible but it really wasn't too bad - given, like most projects, you have all the right tools. Easy in the graphic arts lab, tougher but possible at home. The trickiest part is going to be alignment of the screen and panel - you will have to build a jig to hold everything just right - usually people hinge the silk screen frame to a table for example.

Silk screening can produce excellent results - that's how the factory put the lettering on in the first place. But as you have surmised by now, 95% of the work is getting set up - then you can run off 50 front panels almost as easily as one - that's why you see people planning on making a run of Ranger front panels or whatever.

Find a book in the library, practice on some scrap, and good luck.
Nick KD4CPL

From boatanchors@theporch.com Tue Jan 3 08:04:28 1995
Date: Tue, 3 Jan 1995 06:33:00 -0600
Message-Id: <9501031230.AA09099@kali>
From: wallace@jericho.mc.com (Andy Wallace)
Subject: sky-hi GPR-90

$800-1000? Eek. I would say closer to $300-500. I don't think they were that rare. Now, on the other hand, I've never seen the GSB sideband adapter, either! <grin> (See my want-list posted earlier.)

Not to help drive up the price, but my best friend heard some real amazing SW broadcast DX on his dad's GPR-90. It really is a nice receiver, but I would think it's no better than the more common SP-600... By the way, my friend was able to hear and QSL the broadcast station from the Falkland Islands, back when it was on 2.370 MHz and running 1 kW.

--Andy
P.S. -- I do like the way TMC copied the National S-meter colors for the rig, though!

From boatanchors@theporch.com Tue Jan 3 02:32:30 1995
Date: Tue, 3 Jan 1995 00:58:12 -0600
Message-Id: <Pine.ULT.3.91.950102222519.11067B-100000@ohm.elee.calpoly.edu>
From: Cal Eustaquio <ceustaqu@ohm.elee.calpoly.edu>
Subject: Re: Stamping as opposed to silkscreening

Hello Folks:

I just would like to review my method of relettering my Globe King 500. I decided that the resolution on stamping will not be as good as silkscreening. But hey, have I got great ideas for you interested in my method of creating a silkscreen master (future ER article? Depends on getting my Minolta repaired).

In any event, I took one good hard look at my RF deck with those extra holes in the panel. Hmmmmfffff... (I had them, especially if they don't have mods in there to begin with). So I took off all the knobs, meters, and other hardware and brought it to my friendly Kinkos to have it reversed Xeroxed on a color copier. I then had a clear sheet made of that made and the Globe King WRL globe blown up to 200% After that, I brought it home and fired up my vintage classic Macintosh SE kilowatt computer (just kidding). I matched the font of the front panel lettering to be near Helevicta (or whatever) and proceeded to make a list of the front panel words on Microsoft Works 2.01 (in bold, of course). And then

after creating all the lettering (plus a dupe for goof-ups), I save it all on disc and proceeded to attack the Globe. Blowing up the logo reveals that the details are all blurred and the copy is not so detailed. The tower that was shown in the logo was so badly fuzzed that I ended up cutting it out and "rebuilding the tower" using pen and ink duplication. I also chopped out the lightning bolts, the "WRL" and "Globe King" letters from the logo. I also cut out as much of the fuzz as I could. In the meantime, I got a hold of an extra blown-up Globe logo and cut out the lightning bolts neatly. Then, using my Mac, I recreated both the "WRL" and "Globe King" lettering to match the size of the originals. On the "reworked Globe", I completely cut it out of the paper and glued it on a clean sheet of white paper. I proceeded to glue new lettering, "reworked tower" and lightning bolts while ensuring that all white spots were colored in with a black marker. After all were glued together, I shrank the logo back to its original size (using the reduction feature found in the copy machine. The results on the "reworked Globe" were fantastic. It has much clearer detail than the one taken from the original.

Now that was the easy part. The hard part was putting all the lettering on a blank piece of paper to duplicate the panel. I had to cut and paste each letter on the Mac printout and carefully place the letters to duplicate the layout. This was done by selecting two holes as alignment markets (I used the "key" and "loading switch select" as the locaters). After carefully measuring out and making crosshairs at those points, I taped the clear sheet over the paper and scotch taped all control markings and lettering at the exact places. (Oh yes, I skipped a step: remember I mentioned that I saved all the letters on disk? I brought it to a copy shop that had Macs and had the lettering printed on a laser printer for optimum resolution). After that was all done, I repositioned the reworked Globe into its original spot (again using the clear sheet as a guide). After all was said and done, I took off the clear sheet and had the pasted sheet made into the silkscreen master by having it Xeroxed into a clear sheet. The results have high resolution and should prove to make a good silkscreen. I also made a duplicate "just in case." The whole process took my about five hours. So how is that for fanaticism? And no CAD to help me either! Let me know of your comments and suggestions. 73's. Cal, N6KYR.

From boatanchors@theporch.com Tue Jan 3 10:17:41 1995
Date: Tue, 3 Jan 1995 08:45:12 -0600
Message-Id: <9501031511.AA102921@csemail.cropsci.ncsu.edu>
From: rdkeys@csemail
Subject: Re: Stancor transmitter

>
> Anyone have a 1937 Stancor annual that you would be willing to copy?
> Someone gave me a Stancor 48C (see picture on page 106 of June, 1937 QST)

> and I'd like to find coil information. It has a 47 crystal osc, 802
> buffer/doubler, and PP 802 output. Also looking for a book on a Stancor
> 10P, which is a later rig. Thanks in advance.
>
> WB8YUW, Bill <bstrang@iac.net>
>

Contact N4IQA, Tim Buehlmann [good in the book]. He has one and might
be persuaded to do something.

Bob
NA4G

p.s. tell him I sent you.

From boatanchors@theporch.com Tue Jan 3 11:27:13 1995
Date: Tue, 3 Jan 1995 09:46:13 -0600
Message-Id: <199501031544.IAA21571@atd.atd.ucar.EDU>
From: owens@stout.atd.ucar.edu (Chip Owens)
Subject: SUBSCRIBE

Hello,

Please subscribe me to the boatanchors list. Thanks!

Chip Owens, NW0O

owens@stout.atd.ucar.Edu

From boatanchors@theporch.com Tue Jan 3 13:39:30 1995
Date: Tue, 3 Jan 1995 12:05:50 -0600
Message-Id: <9501031258.aa05331@FSAC3.PICA.ARMY.MIL>
From: Ka-Nang Yuen (FSAC-MDD) <knyuen@fsac3.pica.army.mil>
Subject: subscribe

Please subscribe

From boatanchors@theporch.com Tue Jan 3 21:47:41 1995
Date: Tue, 3 Jan 1995 20:12:21 -0600
Message-Id: <d09ABRx000000000@MHS>
From: RICHARD_HUMPHREY@hp5200.desk.hp.com
Subject: RE: SX-62A for sale

Here's where we need that grading system. I looked at this receiver
when it was on consignment at a local electronics store.
"Very good condition" must mean the following:

1. Wrong knob on bandswitch
2. Cabinet paint badly beat: plan on repainting
3. Hasn't been cleaned since it left the factory (dust bunnies behind the dial glass and an overall dirty look to the set)
4. Dial pointer 'leans' to one side
5. Owner admits bandswitch is noisy
6. Lots of original tubes probably means it has several weak tubes that need to be replaced.

And so it goes. If I saw this one at a swap, I would open the bidding at
$50. Any more than about $125 and I would keep walking. Sure, it would
clean up OK, but plan on some work.
Hey, let's start a price control movement. Know your fair prices and
refuse to pay more!
Richard

From boatanchors@theporch.com Tue Jan 3 22:53:00 1995
Date: Tue, 3 Jan 1995 21:19:15 -0600
Message-Id: <9501031917.ZM13410@bugs>
From: mark_gaidos@MENTORG.COM (Mark Gaidos)
Subject: Re: SX-62A for sale

On Jan 3, 8:12pm, RICHARD_HUMPHREY@HP5200.desk.hp.com wrote:
> Here's where we need that grading system. I looked at this receiver
> when it was on consignment at a local electronics store.
> "Very good condition" must mean the following:
> 1. Wrong knob on bandswitch
> 2. Cabinet paint badly beat: plan on repainting
> 3. Hasn't been cleaned since it left the factory (dust bunnies behind
> the dial glass and an overall dirty look to the set)
> 4. Dial pointer 'leans' to one side
> 5. Owner admits bandswitch is noisy
> 6. Lots of original tubes probably means it has several weak tubes
> that need to be replaced.

>-- End of excerpt from RICHARD_HUMPHREY@HP5200.desk.hp.com

I guess #1 and #2 would get me a bit annoyed if the set was billed
as "very good". Repainting is a major hassle and greatly lessens the value of
the set, in my opinion. The other conditions are significant in that they
indicate a probable lack of care taken with the set over the years.

--
```
                                                   /\
                                              /\  /  \
                                             /  \/    \  /\
                                         /\ /    \     \/  \
  ^     Mark Gaidos                ^   /^ /     ^      \^  \    ^
 / \  ^  Mentor Graphics          / \ // \  ^  / \  ^  / \  ^  / \
 / \ / \  Wilsonville, Oregon USA  / \  / \ / \ / \ / \ / \ / \ / \
 / \ / \   (503) 685-1278          / \  / \ / \ / \ / \ / \ / \ / \
  |   |     mgaidos@wv.mentorg.com  |    |   |   | ..|   |   |   |
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
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From boatanchors@theporch.com Wed Jan 4 00:23:41 1995
Date: Tue, 3 Jan 1995 22:48:13 -0600
Message-Id: <Pine.3.89.9501032328.A572533045-0100000@wmich.edu>
From: X90GALBRAIT1@wmich.edu
Subject: RE: SX-62A for sale

Agreed!! This story is not an uncommon one, and further saddens the BA situation in the sense that not only are prices jumping orders of magnitude, but the equipment is lessening in condition.
Don't pay high, and sell fair is THE point.
Of course this is idealistic, but I believe is nonetheless important. I have paid a little too much for a piece of gear, but if I ever were to sell it I would ask absolutely no more than what I would've wanted to pay-honest! I bought an HQ-180/S-200 speaker last year for $250. Granted, a few years back I would've only paid $125-175, but it's a piece I've always wanted to USE (not sit, mind you)...If I had to sell it now, I wouldn't post something like "taking offers until x", and wait for the collector with huge available cash to pay $400 for it. I would talk to hams I know and let it go to someone who wanted it as bad as I once did. Also, I would take $175-not because I'm a philanthropist, but because it has some worn lettering and think that a radio should only take top dollar when it is TRULY mint-so clean and perfectly serviced to the point of ridiculousness.
Regressing back to idealism, I believe the situation will improve for us BA users and restorers if we (1) consciously sell only to hams with the intent of using the gear-not reselling, (2) take a fair price for the gear-not the absolute potential top dollar, and (3) refuse to pay absurd prices and not be shy in telling the seller he or she is asking too much (done tactfully of course).
By the way, the fellow I bought the HQ-180 from offered me his Ranger I too...it was in mint shape, except for the 6m mod and added toggle switch, repainted cabinet, crystal cover replaced with a 4-pin mic jack,

and --get this-- two GOLD handles on the sides of the case...I could've owned for a mere $450! Fact is truly stranger than fiction :)
73, Chris KA8WFC

From boatanchors@theporch.com Tue Jan 3 03:41:08 1995
Date: Tue, 3 Jan 1995 02:08:37 -0600
Message-Id: <Pine.3.89.9501030927.A22200-0100000@inet.uni-c.dk>
From: MEC <danmec@inet.uni-c.dk>
Subject: W.W.2 gear

I am a collector of German WW2 equipment, Resistance sets, suitcase sets and similar clandestine sets.

Others sharing my interest, please get in touch.

Also, if you run across anything which fits my collection, I appreciate your hints or information where to acquire it.

Many thanks.
73 Rag Otterstad OZ8RO also LA5HE

PS How do I get on the millist ? Have tried, but unsuccesful.

From boatanchors@theporch.com Tue Jan 3 10:35:46 1995
Date: Tue, 3 Jan 1995 09:03:05 -0600
Message-Id: <199501031502.KAA24952@altair.cs.unc.edu>
From: Nick England <nick@cs.unc.edu>
Subject: wanted-1958 handbook

I need a copy of the 1958 ARRL handbook to complete my collection.
Keep an eye out for me at hamfests.
thanks
Nick KD4CPL
nick@cs.unc.edu

From boatanchors@theporch.com Tue Jan 3 02:41:52 1995
Date: Tue, 3 Jan 1995 01:09:10 -0600
Message-Id: <199501030707.XAA17732@hobbes.UCSC.EDU>
From: haynes@cats.ucsc.edu (Jim Haynes)
Subject: We were talking about forming clear plastic bezels

and whether to press a flat sheet of plastic between mold halves or
use one mold and vacuum.

I happened to see in a toy store the other day a kit for making model car
bodies from plastic sheets by vacuum forming. All of which leads one to
believe that vacuum forming small items is not that hard to do.

From boatanchors@theporch.com Tue Jan 3 03:27:07 1995
Date: Tue, 3 Jan 1995 01:53:54 -0600
Message-Id: <Pine.SGI.3.90.950103023805.5994A-100000@umbc7.umbc.edu>
From: Bill Robie <robie@umbc.edu>
Subject: Re: We were talking about forming clear plastic bezels

On Tue, 3 Jan 1995, Jim Haynes wrote:

[...]
> I happened to see in a toy store the other day a kit for making model car
> bodies from plastic sheets by vacuum forming. All of which leads one to
> believe that vacuum forming small items is not that hard to do.

Several years back I knew a guy who dabbled in several mini-businesses ...
one of which was making magnetic-backed signs out of plastic. He'd put a
fair number of bucks into a vacuum forming machine that appeared to be
the sort of thing which could have been made rather easily. It was
nothing more than a suitcase-like box that had a heating element on the top
(could scavenge a couple of old electric heaters?) and a perforated metal
tray on the bottom (hardware store perforated aluminum sheeting?).
Beneath the metal tray was a vacuum that could just as easily have been a
household vacuum source. The way it worked was that he would put a solid
object (letters) onto the lower tray, cover the tray with a sheet of
special plastic (came in several colors, as well as clear), close the
box, turn on the heat for a few seconds, turn on the vacuum, and the
softened plastic would be drawn down around the solid shape. I seem to
recall that he said a short-run copy of a plastic shape could be made by
making a plaster cast in the original, using Saran Wrap as a protective
barrier, then using the plaster "positive" as the solid object on the
tray. I know that he had experimented with making plastic copies of
various things lying around the house -- like a bronze "finger" statue
of a hand that he'd picked up somewhere. If you could find a source for
the plastic, the rest appears fairly easy.

Cheers!

Bill

From boatanchors@theporch.com Tue Jan 3 10:59:58 1995
Date: Tue, 3 Jan 1995 09:25:03 -0600
Message-Id: <Pine.SUN.3.91.950103101713.26145C-100000@access3.digex.net>
From: Tony Stalls <rstalls@access3.digex.net>
Subject: Re: We were talking about forming clear plastic bezels

On Tue, 3 Jan 1995, Jim Haynes wrote:

> and whether to press a flat sheet of plastic between mold halves or
> use one mold and vacuum.
>
> I happened to see in a toy store the other day a kit for making model car
> bodies from plastic sheets by vacuum forming. All of which leads one to
> believe that vacuum forming small items is not that hard to do.
>

There are (maybe) more serious vacuum forming devices available for fairly
reasonable prices. When I apparently went nuts a while last year and
decided to get into R/C aircraft modeling (a BIG mistake by the way), I
recall seeing all kinds of vacuum froming gadgets in the R/C magazines.

73,

Tony
K4KYO

From boatanchors@theporch.com Tue Jan 3 12:01:41 1995
Date: Tue, 3 Jan 1995 10:22:43 -0600
Message-Id: <Pine.3.89.9501030815.A6578-0100000@netcom13>
From: paul Veltman <veltman@netcom.com>
Subject: Re: We were talking about forming clear plastic bezels

>
> There are (maybe) more serious vacuum forming devices available for fairly
> reasonable prices. When I apparently went nuts a while last year and
> decided to get into R/C aircraft modeling (a BIG mistake by the way), I
> recall seeing all kinds of vacuum froming gadgets in the R/C magazines.
>

The process of vacuum forming is not that difficult or expensive to set
up - if you have a mold. Making a correct mold is the hard part of the

process. If you are making a one-off, then making a mold (that will be metal) is a very expensive process.
On your other comment on R/C, I was doing a consulting job a couple of years ago across the street from a San Jose R/C model shop. My wife suggested that maybe our 12 year old son would like to have a R/C plane for his birthday, spend around $50 bucks or so. When I went in this shop, the first thing I noticed was that it was full of adults, not kids as I had expected. I priced out a starter set at around $500. Needless to say, the kid got something else for his birthday. These R/C guys really take it seriously. :-)

73

Paul

From boatanchors@theporch.com Tue Jan 3 14:21:52 1995
Date: Tue, 3 Jan 1995 12:42:18 -0600
Message-Id: <Pine.3.89.9501031330.A26722-0100000@IndyNet>
From: "Roberta J. Barmore" <rbarmore@IndyNet.indy.net>
Subject: Re: We were talking about forming clear plastic bezels

On Tue, 3 Jan 1995, paul Veltman wrote:
> The process of vacuum forming is not that difficult or expensive to set
> up - if you have a mold. Making a correct mold is the hard part of the
> process. If you are making a one-off, then making a mold (that will be
> metal) is a very expensive process.

Why does the mold have to be of metal? If the temperatures involved are low enough, wood or perhaps plaster of paris would do.
Leatherworking is another of my hobbies, and making "forms" for one- or two-off projects is pretty common, and not very difficult. They'd have to be smoother for a dial cover, but that's just a matter of sanding, etc.

Somwhere around here, I have a 1950's technology magazine with an article on making a "car of the future" model, about a foot long. It has a bubble top, formed from a clear plastic sheet over a wooden form in the oven (not in *my* kitchen, sorry!) at low temperatures, using a positive form and a cut-out clamping gadget on the other side; I don't recall if they put some weight on it, or gradually tightened up C-clamps to pull the form and cut-out together. I can dig the mag out and make copies if anyone's interested. (Registration of the form and cut-out is a problem; a few headless nails and holes in the other half would do the job).

Plex sheet can be heated up with a big blow-dryer and bent into all sorts of shapes, and the oven-and-form technique ought to work all

right. The optical qualities might be less than ideal, depending on how thick the material was and how uniformly it is affectd by the forming process.

73,
--Bobbi

From boatanchors@theporch.com Tue Jan 3 14:39:30 1995
Date: Tue, 3 Jan 1995 13:02:15 -0600
Message-Id: <9501031927.AA100403@csemail.cropsci.ncsu.edu>
From: rdkeys@csemail
Subject: Re: We were talking about forming clear plastic bezels

>
>   Somwhere around here, I have a 1950's technology magazine with an
> article on making a "car of the future" model, about a foot long. It has a
> bubble top, formed from a clear plastic sheet over a wooden form in the
> oven (not in *my* kitchen, sorry!) at low temperatures, using a positive
> form and a cut-out clamping gadget on the other side; I don't recall if
> they put some weight on it, or gradually tightened up C-clamps to pull
> the form and cut-out together. I can dig the mag out and make copies if
> anyone's interested. (Registration of the form and cut-out is a problem;
> a few headless nails and holes in the other half would do the job).

If you have that article handy, I would love a copy.

I need to reproduce the clear bubble dial cover for an old RMCA shipboard receiver that has lost its face.

Bob/NA4G
rdkeys@csemail.cropsci.ncsu.edu

From boatanchors@theporch.com Tue Jan 3 23:25:34 1995
Date: Tue, 3 Jan 1995 21:51:14 -0600
Message-Id: <Pine.3.89.9501031921.A8520-0100000@netcom12>
From: paul Veltman <veltman@netcom.com>
Subject: Re: We were talking about forming clear plastic bezels

Bobbi,
I guess that the softening temperature of the plastic would depend upon the specific formulation. The complexity of the mold depends on the bezel type. The thing that came to mind for me was a bezel that is around a meter in a lot of old HF rigs. It is probably best to make the mold out of aluminum. Then, you would have to make it absolutely smooth because a rough surface will translate over to the part you are making.

Holes drilled in the top of the mold would be hooked up to the vacuum pump (shop vac) and would suck the soft plactic up into the mold. You also need some sort of parting compound (Pam) or the plastic will stick to the aluminum mold. When you make the mold, if it is a positive, it will have to me slightly smaller than the part you want, and if it is a negative, then it will have to be slightly larger. Unless you are talking about the absolutely simplest parts, like the bubble top you described, this is a difficult process.

I am not trying to discourage you, but this all can be quite a process.

73

Paul WA6OKQ